APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification at page 1, first full paragraph "Cross-Reference To Related Applications" has been amended as follows:

This application is based on the provisions of 35 U.S.C. Article 111(a) with claiming the benefit of filing dates of U.S. provisional application Serial No. 60/230,811 filed on September 7, 2000 and U.S. provisional application Serial No.60/261,265 filed on [December 27, 2000]

January 16, 2001 under the provisions of 35 U.S.C. 111(b), pursuant to 35 U.S.C. Article 119(e) (1).

IN THE CLAIMS:

The claims are amended as follows:

- 2. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 1, comprising SF₆, F₂, and an inert gas.
- 3. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 1, comprising SF₆, NF₃, and an inert gas.
- 4. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 1, comprising SF₆, F₂, NF₃, and an inert gas.

- 5. (Amended) The cleaning gas for semiconductor production equipment as [described in any one of claims 1 to 4] <u>claimed in claim 1</u>, wherein the inert gas is at least one selected from the group consisting of He, Ne, Ar, Xe, Kr and N₂.
- 6. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 5, wherein the inert gas is at least one selected from the group consisting of He, Ar, and N_2 .
- 7. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 1, wherein F_2 and/or NF_3 is from 0.01 to 5 and the inert gas is from 0.01 to 500 in terms of the volume ratio assuming that SF_6 is 1.
- 8. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 7, wherein F_2 and/or NF_3 is from 0.1 to 1.5 and the inert gas is from 0.1 to 30 in terms of the volume ratio assuming that SF_6 is 1.
- 9. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 1, which contains at least one gas selected from the group consisting of perfluorocarbon, hydrofluorocarbon, perfluoroether and hydrofluoroether.
- 10. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 9, wherein the perfluorocarbon and hydrofluorocarbon each has from 1 to 4 carbon atoms and the perfluoroether and hydrofluoroether each has from 2 to 4 carbon atoms.

- 12. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 11, comprising an oxygen-containing gas, an inert gas, SF₆, and F₂.
- 13. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 11, comprising an oxygen-containing gas, an inert gas, SF₆, and NF₃.
- 14. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 11, comprising an oxygen-containing gas, an inert gas, SF₆, F₂ and NF₃.
- 15. (Amended) The cleaning gas for semiconductor production equipment as [described in any one of claims 11 to 14] <u>claimed in claim 11</u>, wherein the oxygen-containing gas is at least one selected from the group consisting of O₂, O₃, N₂O, NO, NO₂, CO and CO₂.
- 16. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 15, wherein the oxygen-containing gas is O₂ and/or N₂O.
- 17. (Amended) The cleaning gas for semiconductor production equipment as [described in any one of claims 11 to 14] <u>claimed in claim 11</u>, wherein the inert gas is at least one selected from the group consisting of He, Ne, Ar, Xe, Kr and N₂.
- 18. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 17, wherein the inert gas is at least one selected from the group consisting of He, Ar, and N₂.

- 19. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 11, wherein F_2 and/or NF_3 is from 0.01 to 5, the oxygen-containing gas is from 0.01 to 5 and the inert gas is from 0.01 to 500 in terms of the volume ratio assuming that SF_6 is 1.
- 20. (Amended) The cleaning gas for semiconductor production equipment as [described] claimed in claim 19, wherein F_2 and/or NF_3 is from 0.1 to 1.5, the oxygen-containing gas is from 0.1 to 1.5 and the inert gas is from 0.1 to 30 in terms of the volume ratio assuming that SF_6 is 1.
- 21. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 11, which contains at least one gas selected from the group consisting of perfluorocarbon, hydrofluorocarbon, perfluoroether and hydrofluoroether.
- 22. (Amended) The cleaning gas for semiconductor production equipment as [described] <u>claimed</u> in claim 21, wherein the perfluorocarbon and hydrofluorocarbon each has from 1 to 4 carbon atoms and the perfluoroether and hydrofluoroether each has from 2 to 4 carbon atoms.
- 23. (Amended) A method for cleaning semiconductor production equipment, comprising use of the cleaning gas [described in any one of claims 1 to 10] as claimed in claim 1.
- 24. (Amended) The method for cleaning semiconductor production equipment as [described] <u>claimed</u> in claim 23, wherein the cleaning gas [described in any one of claims 1 to

- 10] <u>as claimed in claim 1</u> is excited to produce plasma and the deposits in the semiconductor production equipment are removed in the plasma.
- 25. (Amended) The method for cleaning semiconductor production equipment as [described] <u>claimed</u> in claim 24, wherein the excitation source for the plasma is a microwave.
- 26. (Amended) The method for cleaning semiconductor production equipment as [described in any one of claims 23 to 25] <u>claimed in claim 23</u>, wherein the cleaning gas [described in any one of claims 1 to 10] <u>as claimed in claim 1</u> is used at a temperature range of 50 to 500°C.
- 27. (Amended) The method for cleaning semiconductor production equipment as [described] <u>claimed</u> in claim 23, wherein the cleaning gas [described in any one of claims 1 to 10] <u>as claimed in claim 1</u> is used at a temperature range of 200 to 500°C in a plasmaless system.
- 28. (Amended) A method for cleaning semiconductor production equipment, comprising use of the cleaning gas [described in any one of claims 11 to 22] as claimed in claim 11.
- 29. (Amended) The method for cleaning semiconductor production equipment as [described] <u>claimed</u> in claim 28, wherein the cleaning gas [described in any one of claims 11 to 22] <u>as claimed in claim 11</u> is excited to produce plasma and the deposits in the semiconductor production equipment are removed in the plasma.

- 30. (Amended) The method for cleaning semiconductor production equipment as [described] claimed in claim 29, wherein the excitation source for the plasma is a microwave
- 31. (Amended) The method for cleaning semiconductor production equipment as [described in any one of claims 28 to 30] claimed in claim 28, wherein the cleaning gas [described in any one of claims 11 to 22] as claimed in claim 11 is used at a temperature range of 50 to 500°C.
- 32. (Amended) The method for cleaning semiconductor production equipment as [described] <u>claimed</u> in claim 28, wherein the cleaning gas [described in any one of claims 11 to 22] <u>as claimed in claim 11</u> is used at a temperature range of 200 to 500°C in a plasmaless system.
- 34. (Amended) The method for producing a semiconductor device as [described] claimed in claim 33, wherein the fluorocompound is at least one compound selected from the group consisting of HF, SiF₄, SF₆, SF₄, SOF₂, SO₂F₂, and WF₆.
- 36. (Amended) The method for producing a semiconductor device as [described] claimed in claim 35, wherein the fluorocompound is at least one compound selected from the group consisting of HF, SiF₄, SF₆, SF₄, SOF₂, SO₂F₂, and WF₆.